**Create Django web Site**

- **Python -m venv my1**
- **.\my1\Scripts\activate**
- **pip install Django**
- **update Django**
- **Django-admin startproject mysite .   [ Project name ]**
- **TIME_ZONE = Asia/Kolkata**
- **python .\manage.py runserver**
- **For close Server Ctrl + C**
- **python .\manage.py migrate**
- **python .\manage.py createsuperuser**
- **Enter Password & Conform Password**
- **python .\manage.py startapp myapp**
- **Go To mysite-- setting.py -- INSTALLED_APPS**
  - **'myapp', [ add ]**
- **Goto mysite – urls.py**
  - **Add include in [ path,include ]**
  - **path('',include('myapp.urls'))    [ Add path  ]**
- **Create file urls.py in myapp**
  - **from django.urls import path**
  - **from . import views**
  - 
  - **urlpatterns = [**
  - **path('',views.index,name='index')**
  - **]**
- **Go myapp --- views.py**
  - **def index(request):**
  - **return render(request,'index.html')**
- **Go  myapp – create templates folder**
- **Myapp --- templates**
  - **Index.html**
  - **Header.html**
- **Go  index.html**
  - **TOP**
    - **{% extends 'header.html' %}**
    - **{% block content %}**
  - **Boutom**
    - **{% endblock %}**

- **Go  header.html**
  - **Before Nav tag :**
  - **{% block content %}**
  - **{% endblock %}**
- **Add More Pages**
  - **Contact.html**
  - **Login.html**
  - **signup.html**
  - **user.html**
  - **change_password**
- **how to add in nav link in href**
  - **href = "{% url 'contact' %}"**
  - **href = "{% url 'signup'%}"**
  - **href = "{% url 'login' %}"**
  - **href = "{% url 'user.html' %}"**
  - **href = "{% url 'change_password' %}"**
- **Add all link set path**
  - **path('contact/',views.contact,name='contact'),**
  - **path('signup/',views.signup,name='signup'),**
  - **path('login/',views.login,name='login'),**
- **create Modals Function in views.py**
  - **def contact(request):**
  - **return render(request,'contact.html')**
  - **def signup(request):**
  - **return render(request,'signup.html')**
  - **def login(request):**
  - **return render(request,'login.html')**
- **Write code for contect.html html code**
- **Add models in models.py**
  - **class Contact(models.Model):**
  - **name=models.CharField(max_length=100)**
  - **email=models.EmailField()**
  - **mobile=models.PositiveIntegerField()**
  - **remark=models.TextField()**
  - 
  - **def __str__(self):**
  - **return self.name**
- **Go admin.py in myapp**
  - **from .models import Contact**
  - **admin.site.register(Contact)**
- **python .\manage.py makemigrations**
- **python .\manage.py migrate**

- **Also Add in contact.html ---- in form tage**
  - **&lt;form method="post" action="{% url 'contact' %}"&gt;**
  - **{% csrf_token %}**
- **Go views.py**
  - **Add from .models import Contact,User**
  - **def contact(request):**
  - **if request.method == 'POST':**
  - **Contact.objects.create(**
  - **name=request.POST['name'],**
  - **email=request.POST['email'],**
  - **mobile=request.POST['mobile'],**
  - **remark=request.POST['remark']**
  - **)**
  - **msg="Contact saved successfully"**
  - **contact=Contact.objects.all().order_by('-id')[:3]**
  - **return render(request,'contact.html',{'msg':msg,'contact':contact})**
  - **else:**
  - **contact=Contact.objects.all().order_by('-id')[:3]**
  - **return render(request,'contact.html',{'contact':contact})**
- **Go views.py**
  - **Go contact.html**
  - **{% if msg%}**
  - **&lt;div class="alert alert-success" role="alert" style="margin-top: 20px;"&gt;**
  - **{{msg}}**
  - **{% endif %}**
  - **Add**
  - **{% for i in contact %}**
  - **&lt;p&gt;&lt;strong&gt;Name:&lt;/strong&gt; {{ i.name }}&lt;/p&gt;**
  - **&lt;p&gt;&lt;strong&gt;Message:&lt;/strong&gt; {{ i.message }}&lt;/p&gt;**
  - **{% endfor %}**

# Recent Contacts :

- **\<h3>Recent Contacts :\</h3>**
- **\<hr>**
- **{% for i in contact %}**
- **Name : {{i.name}} \<br>**
- **Remarks : {{i.remark}} \<br>\<hr>**
- **{% endfor %}**

- **{% endfor %}**

- **Go views.py**

  - **contact=Contact.objects.all().order_by('-id')[:3]**
  - **return render(request,'contact.html',{'msg':msg,'contact':contact})**
  - **else:**
  - **contact=Contact.objects.all().order_by('-id')[:3]**
  - **return render(request,'contact.html',{'contact':contact})**
- **Go views.py**
  - **msg="Contact saved successfully"**
  - **contact=Contact.objects.all().order_by('-id')[:3]**
  - **return render(request,'contact.html',{'msg':msg,'contact':contact})**
  - **else:**
  - **contact=Contact.objects.all().order_by('-id')[:3]**
  - **return render(request,'contact.html',{'contact':contact})**

# Sign-Up User

- **Go Create Signup Form in html**
- **Go views.py**
  - **Import User**
  - **Create views signup function**
  - **def signup(request):**
  - **if request.method=="POST":**
  - **try:**

```
o         User.objects.get(email=request.POST['email'])
o         msg="Email already exist"
o         return render(request,'signup.html',{'msg':msg})
o       except:
o         if request.POST['password']==request.POST['c_password']:
o           User.objects.create(
o           fname=request.POST['fname'],
o           lname=request.POST['lname'],
o           mobile=request.POST['mobile'],
o           email=request.POST['email'],
o           address=request.POST['address'],
o           password=request.POST['password']
o           )
o           msg="Signup Successfully"
o           return render(request,'signup.html',{'msg':msg})
o         else:
o           msg="Password and Confirm Password does not match"
o           return render(request,'signup.html',{'msg':msg})
o       else:
o         return render(request,'signup.html')
```

- **Go models.py**
  - **Create Models Class User**
  - **class User(models.Model):**
  - **fname=models.CharField(max_length=100)**
  - **lname=models.CharField(max_length=100)**
  - **mobile=models.PositiveIntegerField()**
  - **email=models.EmailField()**
  - **address=models.TextField()**
  - **password=models.CharField(max_length=100)**
  -
  -
  - **def __str__(self):**
  - **return self.fname**


- **Go admin.py**
  - **Import User**
  - **admin.site.register(User)**
- **python .\manage.py makemigrations**
- **python .\manage.py migrate**

# Login User

- **Create login Form in html**
- **Go views.py**
  - **def login(request):**
  - **if request.method == 'POST':**
  - **try:**
  - **user=User.objects.get(email=request.POST['email'])**
  - **if user.password==request.POST['password']:**
  - **request.session['email']=user.email**
  - **request.session['fname']=user.fname**
  - **return render(request,'index.html')**
  - **else:**
  - **msg="Invalid password"**
  - **return render(request,'login.html',{'msg':msg})**
  - **except:**
  - **msg="Email does not exist"**
  - **return render(request,'login.html',{'msg':msg})**
  - **else:**
  - **return render(request,'login.html')**
  - **Go headear.html**
  - **{% if request.session.email %}**
  - **<li><a href="{% url 'change_password' %}"><span class="glyphicon glyphicon-edit"></span> Change Password</a></li>**
  - **<li><a href="{% url 'profile' %}"><span class="glyphicon glyphicon-user"></span> : {{request.session.fname}}</a></li>**
  - **<li><a href="{% url 'logout' %}"><span class="glyphicon glyphicon-log-out"></span> Logout </a></li>**
  - **{% endif %}**
  - **{% if request.session.email %}**
  - **{% else %}**
  - **<li><a href="{% url 'signup' %}"><span class="glyphicon glyphicon-user"></span> Sign Up</a></li>**
  - **<li><a href="{% url 'login' %}"><span class="glyphicon glyphicon-log-in"></span> Login</a></li>**
  - **{% endif %}**

- **Create change_password.html**
  - **Go urls.py**
  - **path('change_password/',views.change_password,name='change_password'),**
  - **go views.py**
  - **if request.method == 'POST':**
  - **user=User.objects.get(email=request.session['email'])**

- if user.password==request.POST['password']:
- if request.POST['new_password']==request.POST['c_new_password']:
- if user.password!=request.POST['new_password']:
- user.password=request.POST['new_password']
- user.save()
- del request.session['email']
- del request.session['fname']
- msg="Password Changed Successfully.Please login again"
- return render(request,'login.html',{'msg':msg})
- else:
- msg="New Password Can't Be From Old Password"
- return render(request,'change_password.html',{'msg':msg})
- else:
- msg="New Password & Confirm New Password does not match "
- return render(request,'change_password.html',{'msg':msg})
- else:
- msg="Invalid Old Password"
- return render(request,'change_password.html',{'msg':msg})
- else:
- return render(request,'change_password.html')
-

- **Create Profile.html**
  - **Go urls.py**
  - **path('change_password/',views.change_password,name='change_password'),**
  - **go views.py**
  - **user=User.objects.get(email=request.session['email'])**
  - **if request.method == 'POST':**
  - **user.fname=request.POST['fname']**
  - **user.lname=request.POST['lname']**
  - **user.mobile=request.POST['mobile']**
  - **user.address=request.POST['address']**
  - **user.save()**
  - **request.session['fname']=user.fname**
  - **msg="Profile Updated Successfully"**
  - **return render(request,'profile.html',{'msg':msg,'user':user})**
  - **return render(request,'profile.html',{'user':user})**
- **Create logout.html**
  - **Go urls.py**
  - **path('change_password/',views.change_password,name='change_password'),**
  - **go views.py**
  - **try:**
  - **del request.session['email']**
  - **del request.session['fname']**

# Forgot Password

- **Create forgot_password.html**
    - **Add path in urls.py**
    - **path('forgot_password/',views.forgot_password,name='forgot_password'),**
- **Otp.html**
    - **path('otp/',views.otp,name='otp'),**
- **go mysite – settings.py**
    - **add API**
        - **EMAIL_BACKEND = 'django.core.mail.backends.smtp.EmailBackend'**
        - **EMAIL_HOST = 'smtp.gmail.com'**
        - **EMAIL_USE_TLS = True**
        - **EMAIL_PORT = 587**
        - **EMAIL_HOST_USER = #sender's email-id**
        - **EMAIL_HOST_PASSWORD = #password associated with above email-id (not the regular password)**
- **App Password**
- **Go views.py**
    - **from django.core.mail import send_mail**
    - **from django.conf import settings**
    - **import random**
    - 
- **Go views.py**
    - **def forgot_password(request):**
    - **if request.method == 'POST':**
    - **try:**
    - **user=User.objects.get(email=request.POST['email'])**
    - **otp=random.randint(1000,9999)**
    - **subject = 'Forgot Password OTP'**
    - **message = 'Your OTP for forgot password is' +str(otp)**
    - **send_mail (subject,message,settings.EMAIL_HOST_USER,[user.email,])**
    - **request.session['otp']=otp**
    - **request.session['email2']=user.email**
    - **return render(request,'otp.html')**
    - **except:**
    - **msg = 'Email does not exist'**
    - **return render(request,'forgot_password.html',{'msg':msg})**
    - **else:**
    - **return render(request,'forgot_password.html')**
    - 
- **Create otp.html**

- **Go views.py**
  - **def otp(request):**
  - **otp1=int (request.POST['otp'])**
  - **otp2=request.session['otp']**
  - **if otp1 == otp2:**
  - **del request.session['otp']**
  - **msg = 'OTP verified successfully'**
  - **return render(request,'new_password.html',{'msg':msg})**
  - **else:**
  - **msg = 'Invalid OTP'**
  - **return render(request,'otp.html',{'msg':msg})**
- **create new_password.html**
- **Go views.py**
  - **def new_password(request):**
  - **if request.POST['new_password'] == request.POST['cn_password']:**
  - **user=User.objects.get(email=request.session['email2'])**
  - **if user.password != request.POST['new_password']:**
  - **user.password=request.POST['new_password']**
  - **user.save()**
  - **del request.session['email2']**
  - **msg = 'Your password has been changed successfully please login again'**
  - **return render(request,'login.html',{'msg':msg})**
  - **else:**
  - **msg = 'Your current password and new password should not be same'**
  - **return render(request,'new_password.html',{'msg':msg})**
  - **else:**
  - **msg = 'New password and confirm new password does not match'**
  - **return render(request,'new_password.html',{'msg':msg})**